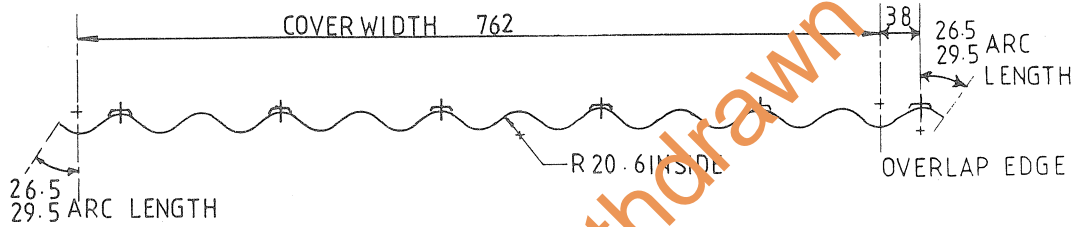


CUSTOM BLUE ORB FOR ROOFING & WALLING WITH CYCLONE WASHERS



MATERIAL SPECIFICATION: 0.66 mm TCT ZINCALUME STEEL TO AS 1397 - G300 - AZ200

TABLE 1 IS BASED ON CYCLIC TEST CRITERIA AS SPECIFIED IN N.B.T.C. TR 440. THE ALLOWABLE SPANS GIVEN IN TABLES 2 AND 3 HAVE BEEN OBTAINED BY LINEAR INTERPOLATION OF P_z IN TABLE 1, SUBJECT TO MAXIMUM SPAN LIMITATION GOVERNED BY CONCENTRATED LOAD CRITERIA. OVERHANGS TO BE 200 mm MAXIMUM FOR ROOFS AND 300 mm MAXIMUM FOR WALLS.

WIND LOADS ARE DETERMINED IN ACCORDANCE WITH AS 1170 PART 2 1983 "WIND FORCES LOADING CODE" FOR A REGIONAL BASIC WIND VELOCITY 55 M/S. CYCLONIC AREA MULTIPLIER OF 1.15 AND ASSUMING AN INTERNAL PRESSURE COEFFICIENT OF + 0.8 AND EXTERNAL PRESSURE COEFFICIENT OF - 0.9 (FOR ROOFS), OR - 0.6 (FOR WALLS). FOR TABLES 2 & 3 THE THREE SPANS FOR EACH TERRAIN CATEGORY ALLOW FOR LOCAL PRESSURE FACTOR K_1 AS PER PARAGRAPH B1.5 OF AS 1170 PART 2 - 1983. RACKING STRENGTH PROVIDED BY THE CLADDING WAS NOT BEEN TESTED AND SHOULD NOT BE ALLOWED FOR IN THE DESIGN OF THE STRUCTURE.

RECOMMENDED FASTENERS

Timber Supports

Strength Group *	Fastener
Hardwood J1 - J3	Self-drilling wood screw with EDPM seal Type 17 Hex Hd. No. 14-10x50 (Lysaght No. THS 1450)
Softwood J4	Type 17 Hex Hd. No. 14-10x65 (Lysaght No. THS 1465)

Steel Supports

Steel Thickness	Fastener
Up to 2.5 mm	Self-drilling tapping screw with EDPM seal No. 14-10x42 Hex Hd. (Lysaght No. SHS 1442)
2.5 - 5.0 mm	No. 14-20 x 45 Hex Hd. (Lysaght No. SHS 1445)

When fixing over insulation blankets increase screw length to maintain fastener penetration in support.

TABLE 1: DESIGN WIND PRESSURE, P_z , Pa

SPAN mm	0.66 mm		
	SINGLE SPAN	END SPAN	INT. SPAN
600	11.3	7.5	9.4
900	5.0	5.0	6.2
1200	1.5	2.7	4.5
1500	0.6	1.4	3.0
1800	-	0.8	1.7
2100	-	0.5	1.1
2400	-	-	0.7

TABLE 2: ROOF SHEETING MAXIMUM ALLOWABLE SPANS

TERRAIN CAT.	LOCAL MULTI-PLIER	PRESS. FACTOR K_1	P_z kPa	0.66 mm	
				END SPAN mm	INT. SPAN mm
CAT 1	1.0	4.33	900	1200	
	1.03	1.5	5.48	840	1020
	2.0	6.62	700	860	
CAT 2	1.0	3.61	900	1200	
	.94	1.5	4.56	900	1190
	2.0	5.51	840	1020	
CAT 2.5	1.0	2.61	900	1200	
	.80	1.5	3.30	900	1200
	2.0	3.99	900	1200	
CAT 3	1.0	1.78	900	1200	
	.66	1.5	2.25	900	1200
	2.0	2.72	900	1200	

TABLE 3: WALL SHEETING MAXIMUM ALLOWABLE SPANS

TERRAIN CAT.	MULTI-PLIER	P_z kPa	0.66 mm		
			SINGLE SPAN mm	END SPAN mm	INT. SPAN mm
CAT 1	3.57	1020	1080	1380	
	1.03	4.33	950	980	1230
	5.09	890	890	1090	
CAT 2	2.97	1070	1160	1500	
	.94	3.61	1020	1080	1380
	4.24	960	1000	1250	
CAT 2.5	2.15	1140	1320	1690	
	.80	2.61	1100	1220	1590
	3.07	1060	1150	1480	
CAT 3	1.46	1200	1350	1800	
	.66	1.78	1170	1350	1780
	2.09	1150	1340	1710	

* For strength groups refer AS 1720 - 1975

Manufacturers Name:

LYSAGHT BUILDING INDUSTRIES

Address: Cnr. Coonawarra and Bombing Roads, Winnellie. N.T.
Phone: (089) 84 3311

CERTIFIED: *[Signature]* M.I.E. Aust

DATE: 19/2/88

LYSAGHT DRAWING NO: 78395

FIXING OF 0.66 mm CUSTOM BLUE ORB WITH CYCLONE WASHERS IN THE DARWIN AREA BUILDING HEIGHT UP TO 6 m

DESIGN DATA SHEET

NORTHERN TERRITORY

CYCLONIC AREAS

APPROVED: *[Signature]* M.I.E. Aust

DATE: 20/4/88

DRAWING NO.

M/101/ 5

COPYRIGHT: This design and print is the property of John Lysaght (Australia) Limited and must not be used, reproduced or copied, wholly or in part, without written permission from the Company. Supply of this design and print represents a confidential communication between the Company and the recipient.

Sheet Steel Building Products Under Adverse Conditions

If it is intended to use uncoated, galvanneal, prime coated or Colorbond building products within 1 kilometre of salt marine locations, or in severe industrial environments, please contact your nearest Lysaght Building Industries Sales Office for free specialised advice. Performance Company products will perform as specified if fixed in accordance with the recommendations contained in this drawing.

SCALE N.T.S.

DATE 22-2-88

DRAWN T.G.

AUTH

Engineering and Development

Lysaght Building Industries
A DIVISION OF JOHN LYSAGHT (AUSTRALIA) LIMITED (INCORPORATED IN NSW)

CYCLONIC FIXING DATA
CUSTOM BLUE ORB (0.66mm TCT) WITH
CYCLONE WASHERS. UP TO 6 m.

LYSAGHT BUILDING INDUSTRIES

78395

WP NO: CBO6606W

REFERENCES

REVISIONS